Outdoor Recreation Trends:

A National Assessment of Trends and Futures for Outdoor Recreation, Natural Amenity Migration and Footprints

A series of 4 national reports to be published in 2010



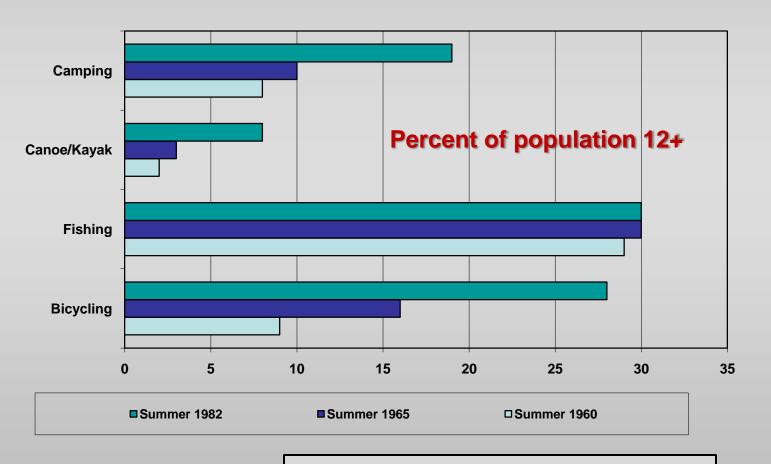
Ken Cordell, Forest Service Research, Athens, GA

Recreation Activity Trends and Futures

- Population-wide participation at national and regional scales—historic and current (four sources):
 - Survey on Fishing, Hunting and Wildlife Associated Recreation (USFWS)
 - Outdoor Foundation—Recreation Participation Survey
 - National Survey on Recreation and the Environment
 - National Kids Survey (Forest Service, UGA, UT)
- Participation Differences by Age, Race, Gender, Origin,
- Participation Differences by Region
- Participation Differences between Forest and Rangelands
- Public Land Visitation Trends
 - Federal Lands (land and water management agencies)
 - State Parks (state park systems)
- Projections of Demand to 2060 by IPCC Scenario

Historic Trends, 1960 to 1980s

Shows in brief some of the historic outdoor recreation activity participation trends (percent of population) based on the former National Recreation Survey, 1960 - 1983.



The NSRE is a continuation of the NRS

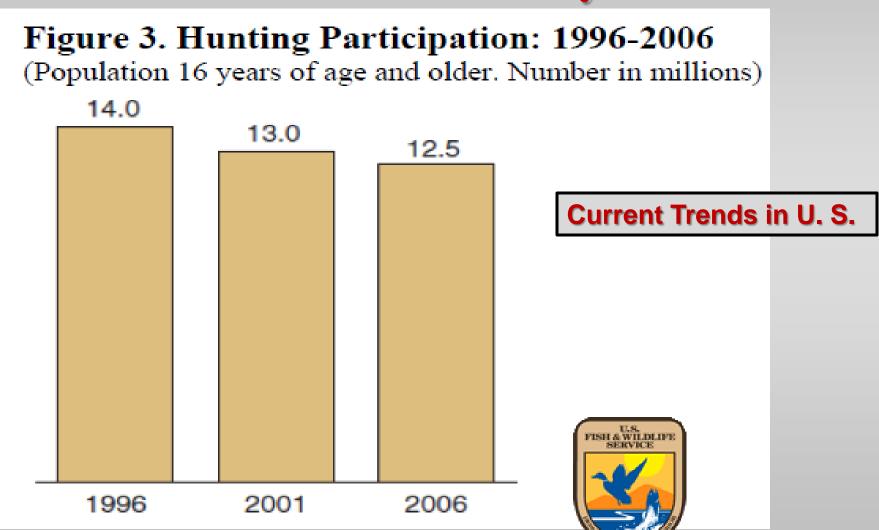
Primary Sources for Current Outdoor Recreation Trends

- National Survey on Fishing, Hunting and Wildlife Associated Recreation (FWS)
- Outdoor Foundation's National Outdoor Participation Survey (Topline Report)
- National Survey on Recreation and the Environment (NSRE)
- National Kids Survey (NKS)

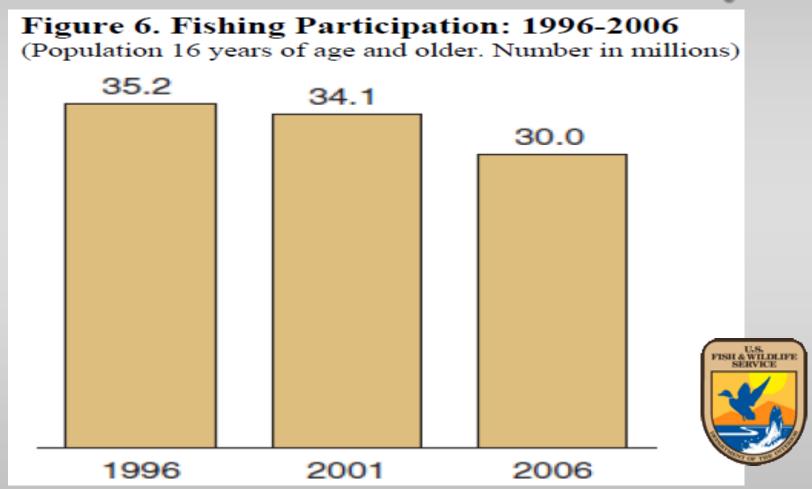
Several opinions out there about current recreation trends, thus, other sources also will be summarized and integrated--Including...

- Mediamark Research Inc. on Leisure Activities as reported in Census Statistical Abstract
- Sporting Goods Manufacturing Assn. (sports participation)
- National Household Travel Survey (U. S. DOT)
- American Time Use Survey (Bureau of Labor Statistics)
- A variety of recreation related consumer expenditure and recreation activities participation statistics in the 2009 Statistical Abstract

Fishing, Hunting and Wildlife Associated Recreation Survey

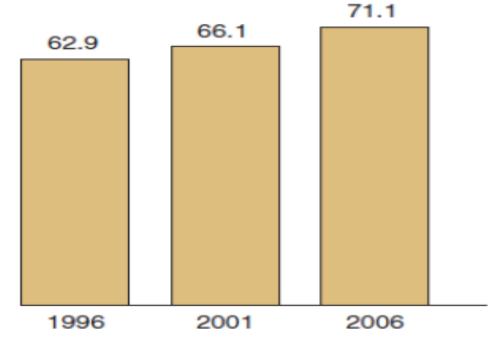


Fishing, Hunting and Wildlife Associated Recreation Survey



Fishing, Hunting and Wildlife Associated Recreation Survey

Figure 10. Wildlife Watching: 1996-2006 (Population 16 years of age and older. Number in millions)





Tuesday, October 27, 2009

Being authored by Chris Fanning and Bryan Mahler, Outdoor Foundation

The Outdoor Foundation 2009 Participation Topline

Washington, DC — Initial data from the 2009 Outdoor Recreation Participation Topline Report, published by The Outdoor Foundation, shows that an increasing number of Americans returned to nature and active outdoor activities last year. The study finds sizeable participation increases in nearly every nature-based activity ...including double-digit increases in backpacking, mountain biking and trail running and close to a ten percent increase in hiking and camping. Overall participation trends in recreation, sports and fitness remained largely unchanged from last year.

"Americans, once again, are finding solace and security, adventure and excitement in the great outdoors," said Christine Fanning, executive director of The Outdoor Foundation. "During these challenging economic times, a return to affordable, nature-based recreation

Foundation. "During these challenging economic times, a return to affordable, nature-based recreation allows individuals, friends and families to reconnect — with one another, with the natural world and with natural values."

The Outdoor Foundation 2009 Outdoor Recreation Participation Topline Report also shows **increases in many active outdoor activities among youth....... but** overall, outdoor participation for youth ages 6 - 12 is down 7.6% from last year..... showing a continued need to focus on connecting kids and nature.

"It is certainly encouraging to see an increase of youth participation in some

important recreation categories, but more must be done," continued Fann partnerships, effective outreach programs and creative campaigns



Tracking American Participation in Outdoor Recreation: The Outdoor

Foundation's Annual *Outdoor Recreation*Participation Report

Excerpt from paper submitted for inclusion in our pub.

According to the most recent data collected, 48.6 percent of all Americans participated in outdoor recreation in 2008. From day hiking in an urban park, to backpacking in a designated wilderness area, to snowboarding at a mountain resort, 135.9 million Americans enjoyed the benefits of a healthy, active outdoor lifestyle...

CHART 1: Participation in Outdoor Recreation by Age

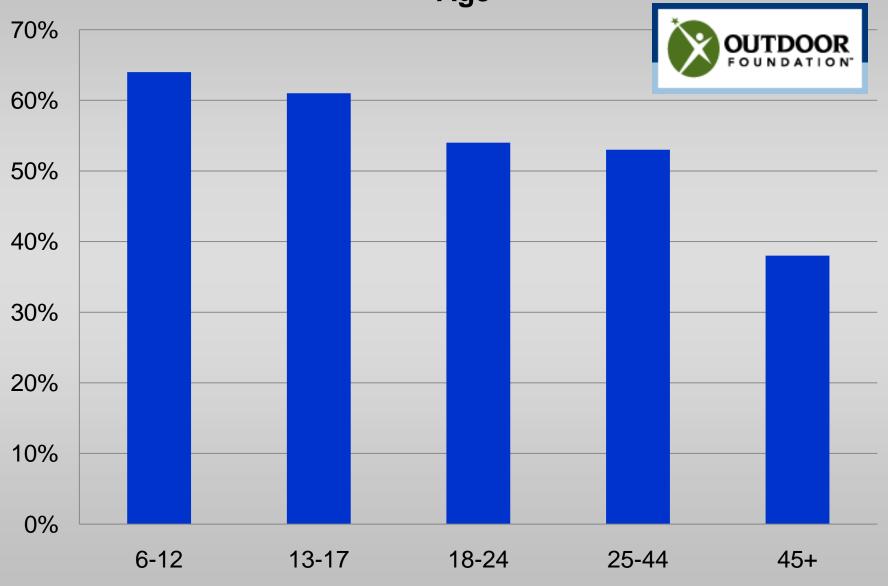


CHART 2: Lifecycle of Participation by Age and Gender

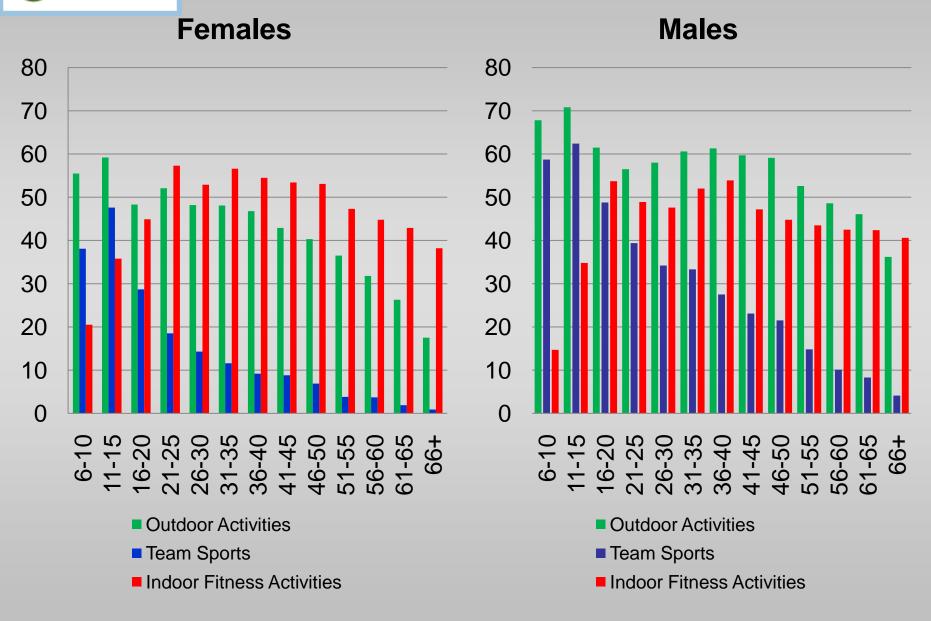
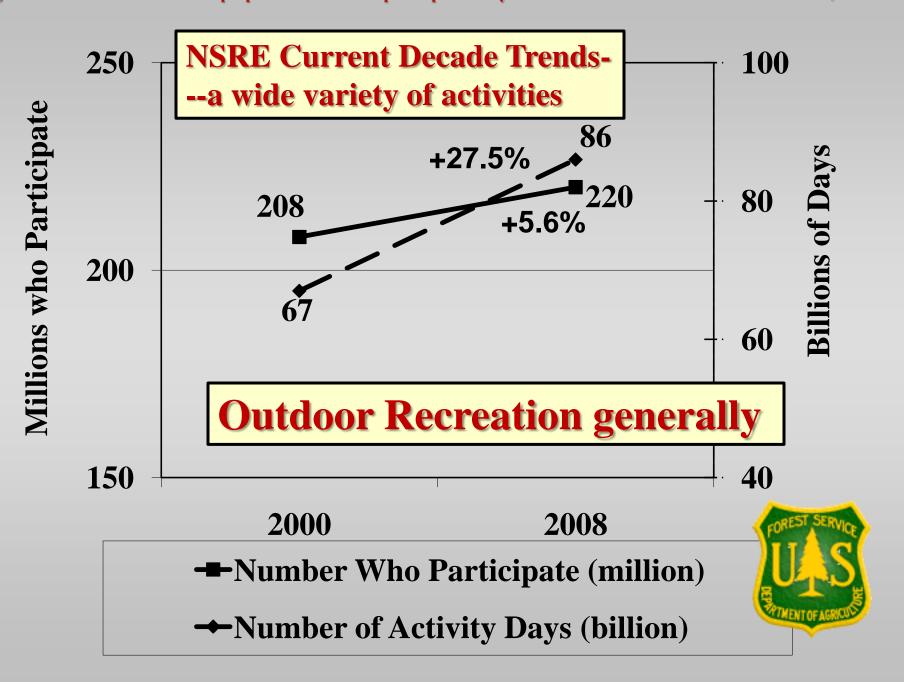


Figure 1.—Growth in number of people and number of participation days in 60 outdoor activities in the United States, 2000–2008



A few top activities showing trends in number and percentage of people 16 and older participating,1999-2001 and 2005-2009

			NSRE Current Decade Trenda wide variety of activities					
Activity Walk for pleasure	1994-95 Total participants (millions) 138.4	1999-01 Total participar (millions	nts P	2005-09 ercent of opulation 84.3	2005-09 Total participants (millions) 194.7	Percent change 1999-01 to 2005-09		
Family gatherings outdoors	128.2	158.2		74.4	171.9	8.7		
Gardening or landscaping	•	139.3		66.8	154.3	10.7		
View/photograph natural scenery	•	127.5		63.5	146.6	14.9		
Visit nature centers, etc	110.9	121.3		55.4	128.0	5.5		

Trends in number and percentage of people 16 and older participating in outdoor activities

_					
	1994-95	1999-01		2005-09	NSRE
	Total	Total	2005-09	Total	1999-01
A otivity	participants	participants	Percent of	participants	to
Activity	(1,000s)	(1,000s)	Population	(1,000s)	2005-09
Sledding	27,653.0	32,289.5	10.7	24,806.5	-23.2
Saltwater fishing	22,938.5	22,339.9	10.7	24,756.8	10.8
Baseball	16,018.3	13,776.4	10.3	23,788.2	72.7
Soccer outdoors	11,245.1	15,974.1	10.3	23,749.4	48.7
Backpacking	16,982.9	22,209.3	10.0	23,061.6	3.8
Tennis outdoors	28,215.2	22,453.5	9.7	22,422.5	-0.1
Horseback riding	20,701.5	20,664.2	9.7	22,343.0	8.1
Canoeing	17,851.1	20,578.1	9.4	21,662.2	5.3
Use personal watercraft	12,021.9	20,320.3	8.9	20,486.7	0.8
Waterskiing	22,657.1	17,105.6	8.6	19,853.5	16.1
Softball	30,999.0	21,300.9	8.5	19,700.2	-7.5
Rafting	19,283.6	20,628.1	8.2	18,936.8	-8.2
Horseback riding on trails	15,132.9	16,628.1	7.0	16,214.7	-2.5
Big game hunting	19,002.6	17,919.6	6.9	15,998.4	-10.7
Small game hunting	17,340.3	15,048.2	6.9	15,967.8	6.1

DayS on which participation occurred across all participants	Total	2005-2009 Total	Percent change	Change in total days
Activity	days	days	1999-09	1999-09
Visit historic sites	697.1	693.3	-0.5	-3.8
Migratory bird hunting	62.3	57.1	-8.3	-5.2
Coldwater fishing	394.1	382.7	-2.9	-11.4
Big game hunting	264.2	248.4	-6.0	-15.8
Canoeing	143.4	121.1	-15.6	-22.3
Cross-country skiing	63.8	33.1	-48.1	-30.7
Saltwater fishing	282.9	251.1	-11.2	-31.8
Snowmobiling	124.7	79.3	-36.4	-45.4
Downhill skiing	147.3	93.7	-36.4	-53.6
Horseback riding on trails	429.5	313.3	-27.1	-116.2
Picnicking	942.1	799.9	-15.1	-142.2
Mountain bikii NSRE	1,353.9	900.7	-33.5	-453.2
Day hiking NSKE	2,520.0	2,059.2	-18.3	-460.8

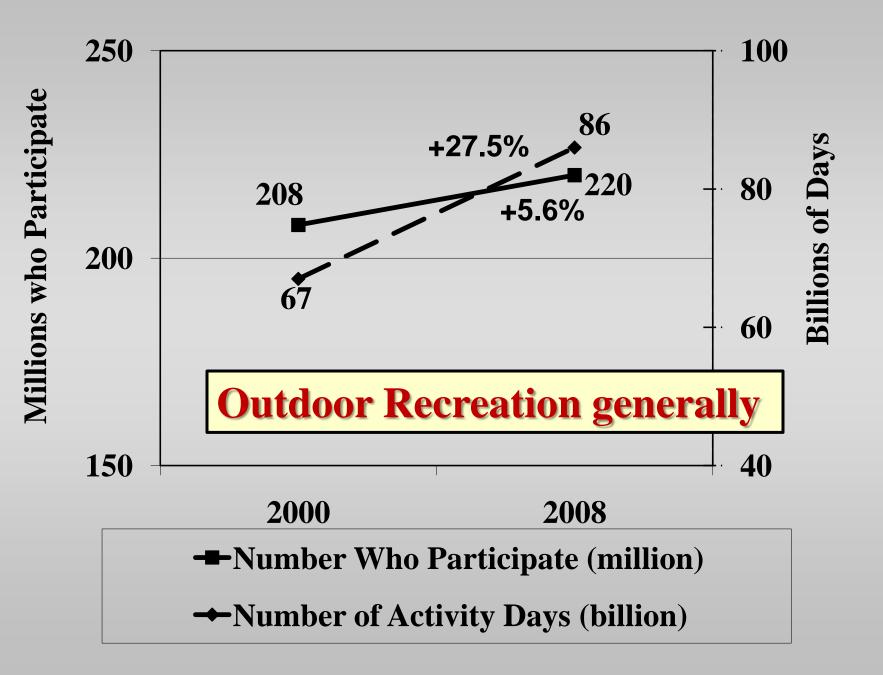
Demographic		Stratum	-	ercent of eticipants	Percent of nation	Ratio (1)/(2)	Percent participating
Gender	Male			62.9	48.2	1.30	26.6
	Female			37.1	51.8	0.72	14.6
Race/ethnicity	White, non-Hispar	nic		73.7	67.3	1.10	22.5
	Black, non-Hispan	ic		7.0	13.9	0.50	10.6
	American Indian,	non-Hispanic		0.9	0.8	1.13	25.6
	Asian or Pacific Is	lander, non-Hispanic		1.2	3.6	0.33	6.7
	Hispanic			17.3	14.4	1.20	24.5
Age	16-24			26.0	15.8	1.65	33.3
	25-34			22.6	16.2	1.40	29.4
	35-44	D.:-:		20.2	16.9	1,20	25.3
	45-54	Driving off-road		16.6	17.6	0.94	19.1
	55-64	vehicles (ATVs etc.	.)	7.9	13.6	0.58	11.9
	65+			6.7	20.0	0.34	6.8
Education	Less than high sch	ool		23.5	24.0	0.98	19.6
	High school gradu	ate		28.4	26.9	1.06	21.6
	Some college			30.3	26.8	1.13	23.4
	College degree			12.7	14.4	0.88	18.0
	Post-graduate degr	ree		5.0	7.9	0.63	13.1
Annual family income	<\$15,000			8.9	16.5	0.54	11.5
	\$15,000-\$24,999			7.5	11.4	0.66	13.2
	\$25,000-\$49,999			29.3	27.4	1.07	22.9
	\$50,000-\$74,999			19.7	18.3	1.08	22.8
	\$75,000-\$99,999			15.6	11.1	1.41	28.0
	\$100,000-\$149,9	99		11.9	9.4	1.27	26.3
	\$150,000+			7.0	6.0	1.17	23.5
Place of residence	Non-metro reside	ent		23.5	17.5	1.34	27.5
	Metro area reside	ent		76.5	82.5	0.93	18.9

Demographic	Stratum		Percent of	Percent	Ratio	Percent
		lum	participants	of nation	(1)/(2)	participating
All groups	All people age 16 & older				•	18.2
Gender	Male		62.0	48.2	1.29	23.3
Gender	Female		38.0	51.8	0.73	13.4
Race/ethnicity	White, non-Hispanic		70.1	67.3	1.04	19.0
Race/etimetty	Black, non-Hispanic		10.3	13.9	0.74	13.8
	American Indian, non-Hispa	anic	0.9	0.8	1.13	25.4
	Asian or Pacific Islander, no		2.2	3.6	0.61	10.3
	Hispanic	on mispanie	16.5	14.4	1.15	20.7
Age	16-24	Marratain bil		15.8	1.53	27.7
50	25-34	Mountain bik	21.0	16.2	1.30	24.3
	35-44		24.1	16.9	1.43	26.6
	45-54		17.8	17.6	1.01	18.0
	55-64		8.2	13.6	0.60	10.7
	65+		4.8	20.0	0.24	4.4
Education	Less than high school		20.1	24.0	0.84	15.0
	High school graduate		23.6	26.9	0.88	16.0
	Some college		27.4	26.8	1.02	18.8
	College degree		18.5	14.4	1.28	23.0
	Post-graduate degree		10.4	7.9	1.32	24.0
Annual family income	<\$15,000		10.9	16.5	0.66	13.1
	\$15,000-\$24,999		6.4	11.4	0.56	10.5
	\$25,000-\$49,999		24.9	27.4	0.91	17.8
	\$50,000-\$74,999		19.1	18.3	1.04	20.9
	\$75,000-\$99,999		14.8	11.1	1.33	24.2
	\$100,000-\$149,999		14.9	9.4	1.59	29.9
	\$150,000+		9.1	6.0	1.52	29.2
Place of residence	Non-metro resident		17.3	17.5	0.99	
	Metro area resident		82.7	82.5	1.00	18.2

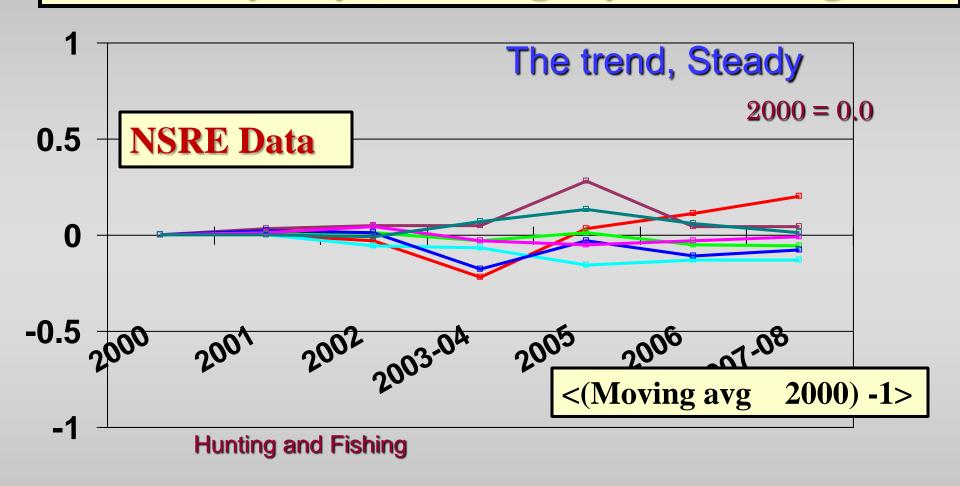
Demographic	S	tratum	Percent of	Percent	Ratio	Percent
			participants	of nation	(1)/(2)	participating
All groups	All people age 16 &	older			<u> </u>	11.8
Gender	Male		83.2	48.2	1.73	20.4
Gender	Female		16.8		0.32	3.8
	remaie		10.0	31.6	0.32	3.0
Race/ethnicity	White, non-Hispanic	2	84.8	67.3	1.26	14.9
, and the same of	Black, non-Hispanic		4.7			4.0
	American Indian, no		0.9			14.2
	Asian or Pacific Isla		1.1	3.6		3.8
	Hispanic		8.4		0.58	
	······································					
Age	16-24		20.4	15.8	1.29	15.3
	25-34	Hunting	19.2	16.2	1.19	14.1
	35-44		19.7	16.9	1.17	13.8
	45-54		20.0	17.6	1.14	13.5
	55-64		11.2	13.6	0.82	9.8
	65+		9.6	20.0	0.48	5.7
Education	Less than high school	ol	22.6	24.0	0.94	11.1
	High school graduat	e	33.2	26.9	1.23	14.5
	Some college		28.0	26.8	1.04	12.2
	College degree		11.8	14.4	0.82	9.6
	Post-graduate degree	e	4.4	7.9	0.56	6.5
Annual family income	<\$15,000		9.5	16.5	0.58	7.2
	\$15,000-\$24,999		9.1	11.4	0.80	10.0
	\$25,000-\$49,999		28.7	27.4	1.05	13.1
	\$50,000-\$74,999		21.5	18.3	1.17	14.8
	\$75,000-\$99,999		14.9	11.1	1.34	16.8
	\$100,000-\$149,999		10.0	9.4	1.06	13.4
	\$150,000+		6.4	6.0	1.07	13.4
Place of residence	Non-metro resident		31.5	17.5	1.80	21.1
	Metro area resident		68.5	82.5	0.83	9.8

Recreation participation differs across regions Rocky										
Recreation participat										
		North		South	Mo	ountains	Pac	Pacific Coast		
Activity	%	(1,000s)	%	(1,000s)	%	(1,000s)	%	(1,000s)		
View natural scenery	62.4	61,503.3	58.9	46,660.7	69.3	14,625.6	66.9	25,306.3		
Picnicking	54.0	53,348.5	43.5	34,532.2	54.6	11,529.4	55.0	20,835.1		
View wildflowers/trees	50.2	49,463.8	48.6	38,528.2	53.8	11,349.7	54.1	20,439.2		
View wildlife besides birds and fish	50.2	49,359.4	48.4	38,305.7	55.3	11,645.4	46.8	17,682.4		
Swimming in lakes, ponds, etc.	42.8	42,029.4	38.5	30,407.3	33.8	7,109.6	42.1	15,868.5		
View or photograph birds	36.7	36,079.5	34.0	26,819.3	32.1	6,750.2	33.6	12,661.2		
Day hiking	32.3	32,089.1	24.6	19,663.5	46.9	9,991.1	42.8	16,347.7		
Gather mushrooms/berries	34.6	33,991.6	31.8	25,113.4	31.0	6,512.8	27.2	10,259.1		
Visit a wilderness	29.3	28,996.1	28.7	22,843.4	45.7	9,668.8	37.6	14,266.3		
View salt/freshwater fish	25.1	24,635.7	29.0	22,865.5	23.9	5,026.0	28.1	10,596.1		
Camp at developed sites	20.7	20,566.0	20.2	16,081.1	34.3	7,285.6	32.0	12,168.3		
Drive off-road	16.4	16,187.2	21.2	16,784.1	27.3	5,765.1	23.2	8,783.2		
Bicycling on mountain/hybrid bike	18.8	18,532.7	15.9	12,618.3	19.4	4,110.8	20.0	7,582.1		
Coldwater fishing	11.2	11,254.9	8.9	7,169.6	23.0	4,937.6	17.6	6,768.9		
Backpacking on trails	8.0	8,043.0	7.6	6,141.4	16.1	3,440.7	13.9	5,349.1		
Canoeing	11.7	11,473.1	8.6	6,769.5	6.8	1,415.4	6.5	2,418.9		
Big game hunting	6.7	6,518.4	8.1	6,336.0	11.0	2,306.8	3.1	1,151.7		
Small game hunting	6.6	6,402.7	8.0	6,264.8	9.8	2,045.5	3.4	1,279.3		
Kayaking	6.3	6,244.5	4.3	3,400.3	4.4	926.5	7.4	2,805.9		

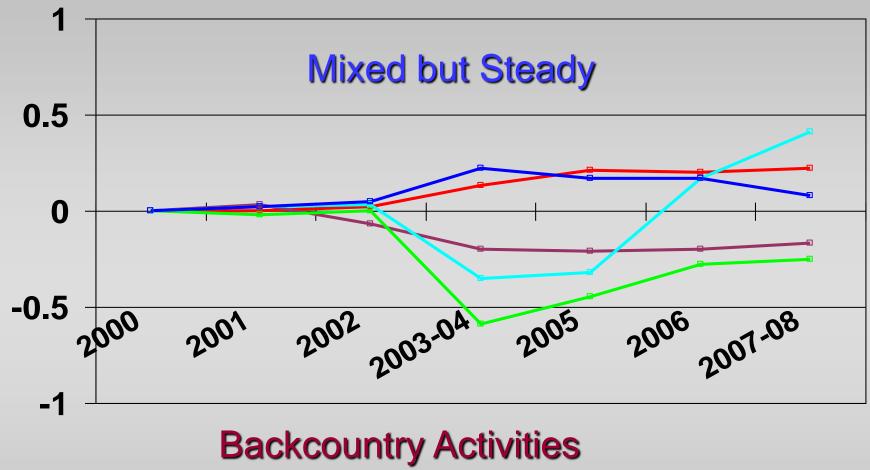
Figure 1.—Growth in number of people and number of participation days in 60 outdoor activities in the United States, 2000–2008

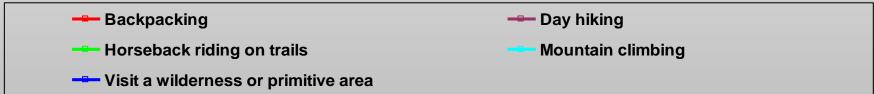


The Trend Story---Total annual recreation activity days, moving 3-year averages

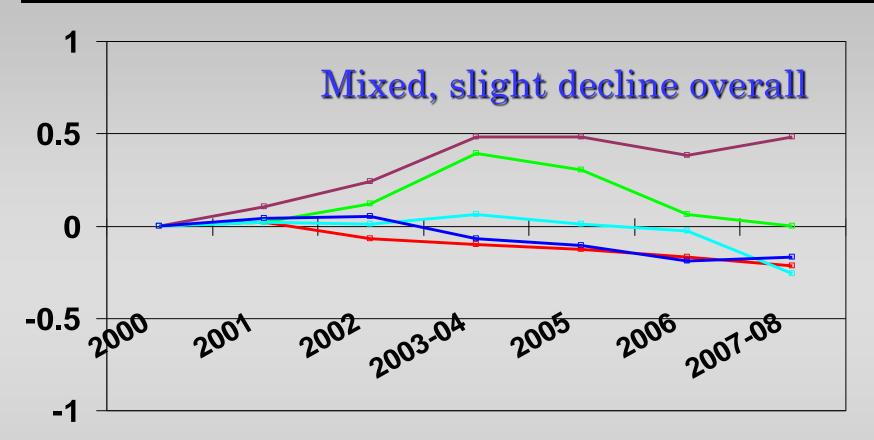








NSRE---National Survey on Recreation and the Environment



Non-Motor Boating Activities



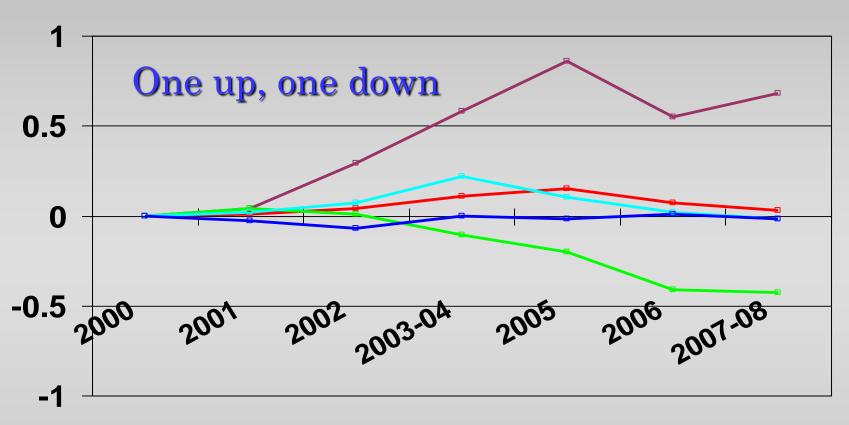
NSRE – National Survey on Recreation and the Environment



Snow Skiing and Boarding



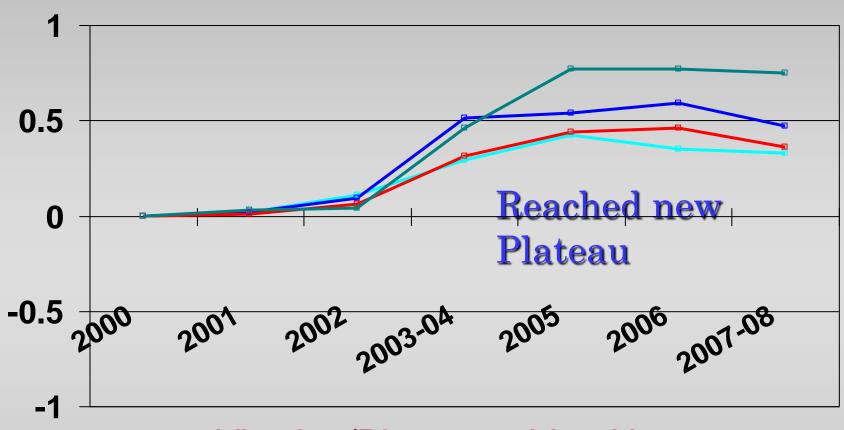
NSRE - National Survey on Recreation and the Environment



Motorized Activities



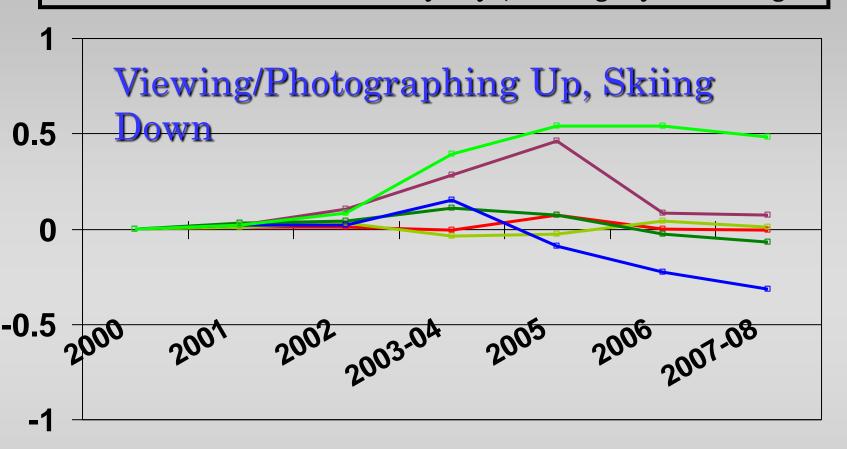
NSRE – National Survey on Recreation and the Environment



Viewing/Photographing Nature



NSRE - National Survey on Recreation and the Environment



Indexing for Groupings of Activities



NSRE – National Survey on Recreation and the Environment

Figure 1.—Growth in number of people and number of participation days in 60 outdoor activities in the United States, 2000–2008

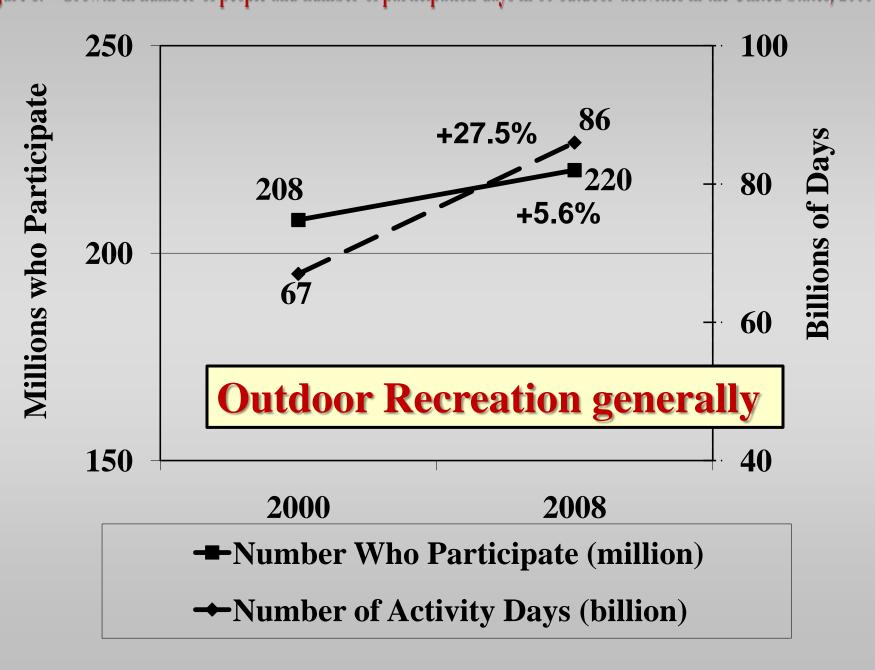
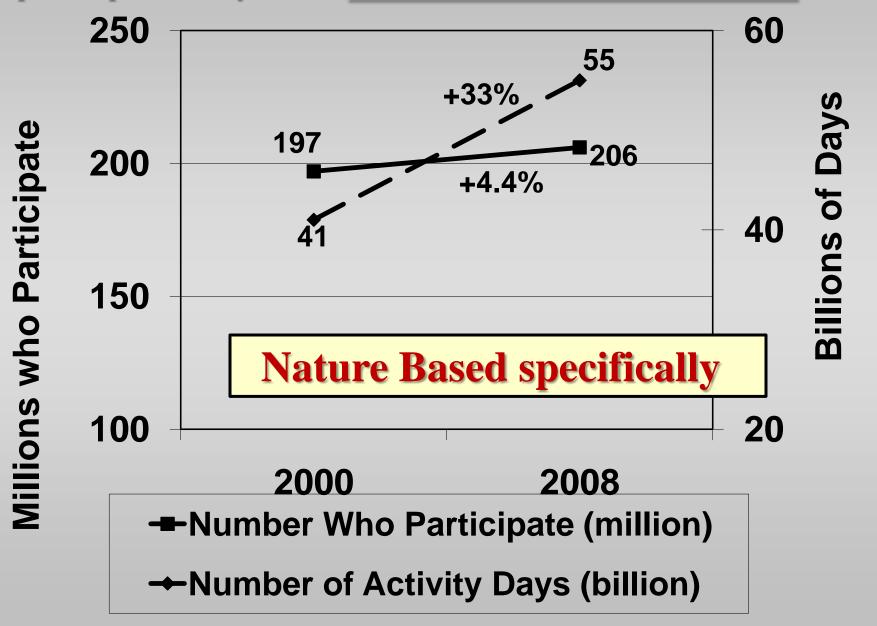


Figure 2.—Growth in number of people and number of participation days in 50 <u>nature-based outdoor recreation</u> activities



Findings from the National Kids Survey— Time outdoors, Youth age 6 - 19

Gender and Time Outdoors Per Day	N	Iale	Fe	emale
Time	Week- day	Weekend day	Week- day	Weekend day
None	2.5	4.1	2.6	4.9
Less than 1/2 hour a day	3.6	0.9	6.2	3.6
About 1/2 hour a day	6.9	3.2	10.2	5.0
About 1 hour	19.6	10.3	26.6	14.4
2-3 hours	32.0	24.9	30.8	29.5
4 or more hours	35.4	56.6	23.6	42.6

Findings from the National Kids Survey— Time outdoors

Age and Time Outdoors	6-9		10)-12	13	3-15	16-19	
Time	Week- day	Weekend day	Week- day	Weekend day	Week- day	Weekend day	Week- day	Weekend day
None	2.4	2.6	3.9	4.5	1.8	3.1	2.3	7.7
Less than 1/2 hour a day	4.4	2.0	2.8	1.1	5.1	1.0	6.9	4.4
About 1/2 hour a day	8.9	2.0	7.4	4.6	8.2	3.8	9.4	6.2
About 1 hour	26.4	10.4	25.2	6.0	17.4	12.0	22.0	19.6
2-3 hours	35.1	29.5	28.2	26.9	33.6	29.2	28.0	23.1
4 or more hours	22.8	53.4	32.6	57.0	33.9	50.9	31.4	39.1

Findings from the National Kids Survey— Outdoor activities

Outdoor Activity	Male	Female	Total
Just play outdoors or hang out	87.5	78.4	83.0
Biking, jogging, walking, skate boarding, etc	77.7	80.1	78.8
Listen to music, watch movies, or use electronic device	51.3	59.5	55.4
Playing or practicing team sports	60.5	40.3	50.8
Reading or studying while sitting outdoors	38.5	51.1	44.5
Other sports, e.g., tennis, golf	37.5	35.5	36.6
Attending camps, field trips, outdoor classes	30.8	39.1	34.8
Bird watching, wildlife viewing, etc	28.2	33.1	30.5
Swimming, diving, snorkeling, etc	29.3	28.8	28.9
Hiking, camping, fishing, etc	29.0	26.7	27.8
Riding motorcycles, ATVs, other off-road vehicles	24.4	15.8	20.2
Other outdoor activities	10.3	11.6	10.9
Snow skiing, snowboarding, cross-country skiing	9.4	8.4	8.9
Boating, jet skiing, water skiing, etc	7.9	7.2	7.5
Rowing, kayaking, canoeing, surfing, etc	8.5	6.3	7.4

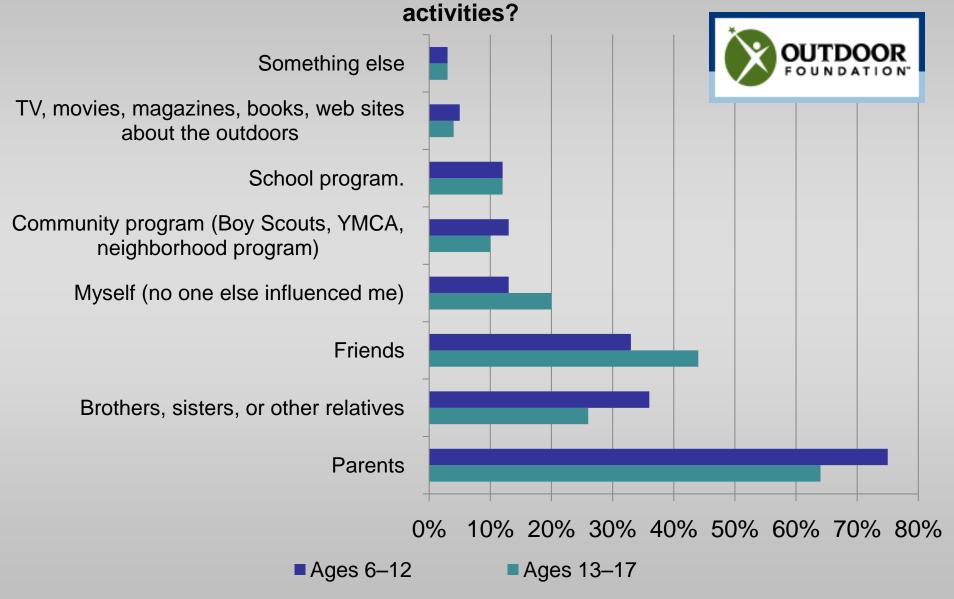
Estimated percentages of kids in the U.S. by gender and reason for not spending more time, 2007 – 2009

Reasons	Male	Female	Total
Interested in music, art, reading, etc	50.0	66.4	57.9
Interested in video games, DVDs and tv	55.9	41.0	48.6
Interested in Internet, text messaging, etc	38.4	57.7	47.8
More involved in indoor sports	34.5	41.3	37.8
Other reason time not spent outdoors	28.3	38.7	33.3
Neighborhood does not have good access	22.0	28.7	25.2
Spend time at mall, shopping, hanging out	21.2	26.4	23.7
Don't have anyone to play outdoors with	19.9	23.2	21.5
Don't have transportation	16.5	24.8	20.6
It is not safe to play or do sports outside	16.9	9.8	13.4
Was injured or developed a health problem	9.8	6.0	8.0

Percent of youth 6 to 19 indicating the activity in which they spent the most time in past week

Activity spent most time doing	Percent
Just play outdoors or hang out	27.1
Playing/practicing team sports	25.5
Biking, jogging, walking, skate boarding, etc	18.4
Swimming, diving, snorkeling, etc	6.6
Reading, studying while sitting outdoors	6.1
Playing/practicing other sports	3.7
Riding motorcycles, ATVs, other off-road vehicles	3.5
Hiking, camping, fishing, etc.	3.3
Other	2.3
Attending camps, field trips, outdoor classes	1.5
Snow skiing, snowboarding, cross-country skiing	0.7
Bird watching, wildlife viewing, nature study	0.6
Rowing, kayaking, canoeing, surfing, etc	0.3
Boating, jet skiing, water skiing, etc	0.3

Who influenced your decision to participate in outdoor



Some more interesting stuff from NSRE

When considering rising gasoline and transportation prices, percent who said they took fewer, about the same number, or more trips for their favorite activity compared with 12 months ago (n=982)

Percent who cited selected reasons for taking fewer trips for their favorite activity compared to a year ago (n=431)

Trips taken compared to last	
year	Percent
Fewer	44.5
About the same	43.2
More	8.6
Refused	2.0
Don't know	1.7
	100.0

Reason for taking fewer trips	Percent
Reduced number of trips anywhere	52.9
Found places closer to home	41.4
Found other outdoor activities to do	46.2
Spend more time indoors	55.6
Other reasons why you are now taking fewer trips	73.9

Visitation to Public Lands

 A paper last year in the PNAS said that public land visitation was in steep decline.

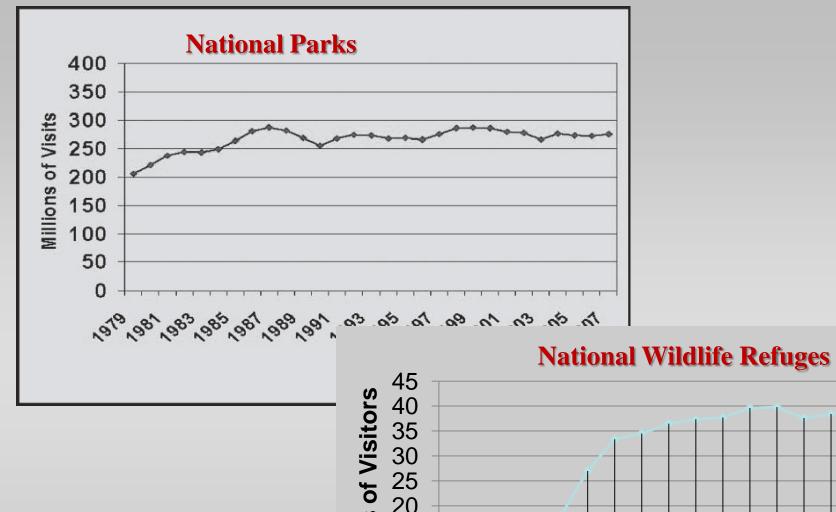
 But, agency data showed that state park, national park, national wildlife refuge and BLM visitation actually has been relatively

stable or increasing since the 90s.

State park visitation in 2008 rose
 back above the former level reported
 in 2001 (a 1.6% increase) (National
 Association of State Park Directors,
 2009).

- National Park visitation has been stable since 2001 (275 in 2008)
- National wildlife refuge visitation has grown from 33 million in 1998 to over 41 million in 2008, growth of 24 percent

Year (Millions of
Visits)	
1975	471
1985	660
1995	746
2000	767
2001	735
2003	735
2005	715
2006	711 State
2007	740 Park
2008	747 Trend





NSRE Estimates of visits to wilderness or other wild or primitive places

 1999-2001
 2005-2009
 Change 1999-2009

 Visit a wilderness
 14.2%
 971.8
 15.0%
 1,137.5
 17.1%
 165.7

NSRE since 1994

Contributions from other Scientists—so far

Richard Aiken and Anna Harris (FWS)

Preserving the Hunting Heritage: Rise in Youth Hunting

Chris Fanning and Brian Mauher (Outdoor Foundation)

Active Outdoor Participation

Barry A. Garst, Daniel R. Williams (RMRS), and, Joseph W. Roggenbuck Trends in Developed Forest Camping

Debbie Chavez (PSW)

Geocaching: Form, Function & Opportunity

Latinos and Outdoor Recreation

Glen Hvenegaard (U. Alberta)

Wildlife Festivals in North America: Growth and Economic Importance

Pat Winter (PSW)

The Intersection of Trust and Recreation Management

The Sustainability of Outdoor Recreation and Tourism: Findings from a Survey of Forest Service Managers

Values of the Urban Wilderness Visit

Others which are hopefully coming (Don English/Stan Zarnoch, Visitation to NFs //Neal Haggendorn, Visits to AK NFs //Gary Green et al, Constraints to Recreation Participation//.....)

Summary of Trends

- Recreation activities widely popular in the 1950s through the 1980s, were still popular at the turn of the century
- However, there have been many profound changes over the last 50 years that affect what people choose to do (or not do) for their outdoor recreation
- The popularity of outdoor recreation continued to grow up through the beginning of this decade, <u>and</u> change, e.g., popularity of birding and some forms of motorized activity.
- By the beginning of this century, rising interest in observing and studying/learning about nature was becoming quite evident
- A very noticeable change by 2000ish was growth in the proportion of the total population that participated in outdoor activities.

Summary of Trends

- Outdoor recreation generally, and nature-based recreation especially, are still growing through 2009.
- The mix of Americans' activities, however, is continuing to change (noticeably, rising interest in viewing/photographing nature and motorized offhighway riding)
- In the meantime, interest in some of the more traditional activities have been declining (e.g., picnicking, visiting historic sites, canoeing, rafting)
- The jury is still out on time and activities by Kids outdoors, but it is clear they do spend time outdoors

Forecasting Future Recreation Participation

• Forecast outdoor recreation participation and participation days 2010 to 2060 for:

- 17 activities/groupings
- National & 4 RPA regions
- 3-ish story lines/scenarios
- -3 x 5 x 17 x 2 → some serious simulatin'

10 Primary Activities

- Birding
- Equestrian
- Hiking/backpacking
- Canoeing/kayaking/rafting
- Fishing
- Hunting
- Snow skiing/snow boarding
- Motorized off-road use
- Motorized water use
- Motorized snow use

7 Activity Groupings

- **Viewing**, photographing, studying, gathering nature (birds, scenery, flowers/trees, wildlife, fish, gathering natural products)
- Visiting interpretive sites (nature centers, zoos, historic sites, prehistoric sites)
- Using developed sites (Family gatherings, picnicking, developed camping)
- Winter activities (ice skating, cross country, sledding, snow shoeing)
- **Swimming** (swimming, visit a beach, visit another waterside, surfing, snorkeling, diving)
- Challenge activities (mountain biking, mountain climbing, rock climbing, caving)
- Visiting primitive areas, primitive camping, backpacking

2. Recreation and protected land resources: National, regional and county patterns

Nature Based Recreation Resources

- Recreation access to private lands (NWLOS, Brett Butler)
- Recreation access to other private lands
- Private business sector (County Business Patterns)
- Second and vacation homes (Census of Housing and NSRE second home ownership Qs)
- Private sector role in providing services on public land (Margaret Bailey, HCM, 10/20/09)
- Local Government Systems (Harnik on largest cities)
- State Park Systems (Including NASPD survey data)
- Federal Government Systems (RECGOV)

Protected Lands

- Private
- Local Government
- State Government
- Federal Wilderness System
- Other Federal Systems

Creating recreation and amenities data base with individual and neighboring counties by distance zones: *Distance zones include within, 30, 50, 100 and 200 miles

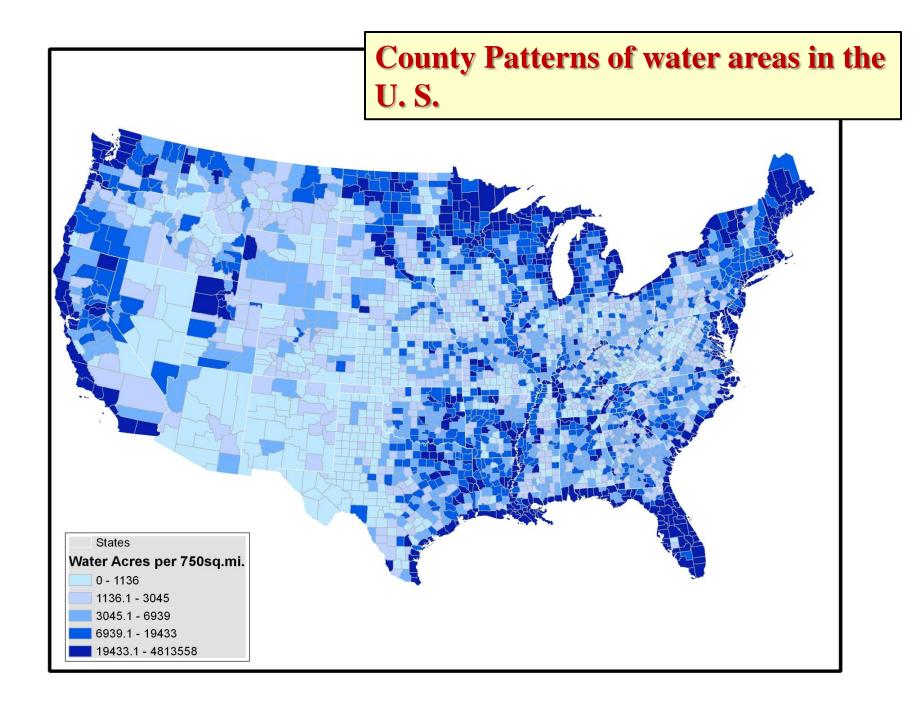
•	AMENITIES	Climate, natural features, housing units
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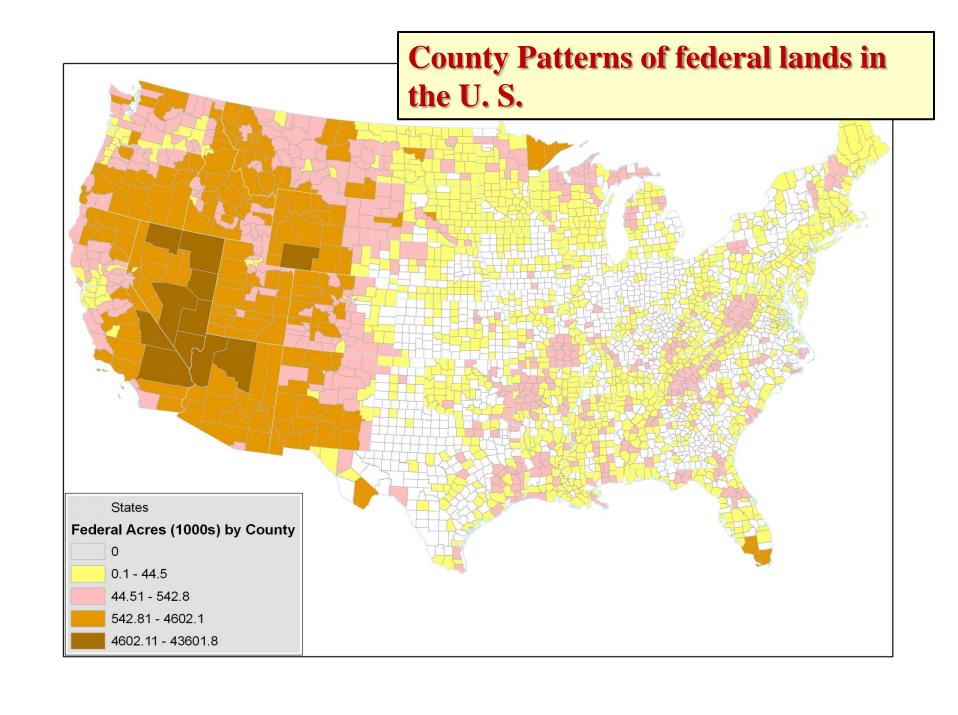
- LANDAREA Total land and water area, federal and state
- RECGOV Federal recreation sites/facilties
- CBP07 2007 Co. Business Patterns recreation bus.
- LOCALGOVT 2007 Census of Governments, local P&R
- POP Population projections to 2060, IPCC A1/A2/B2
- DPI_A1 Disposable personal income based A1/A2/B2
- LANDUSE Land use projections to 2062, Ralph's
- Other Vars. Airports, seasonal homes,

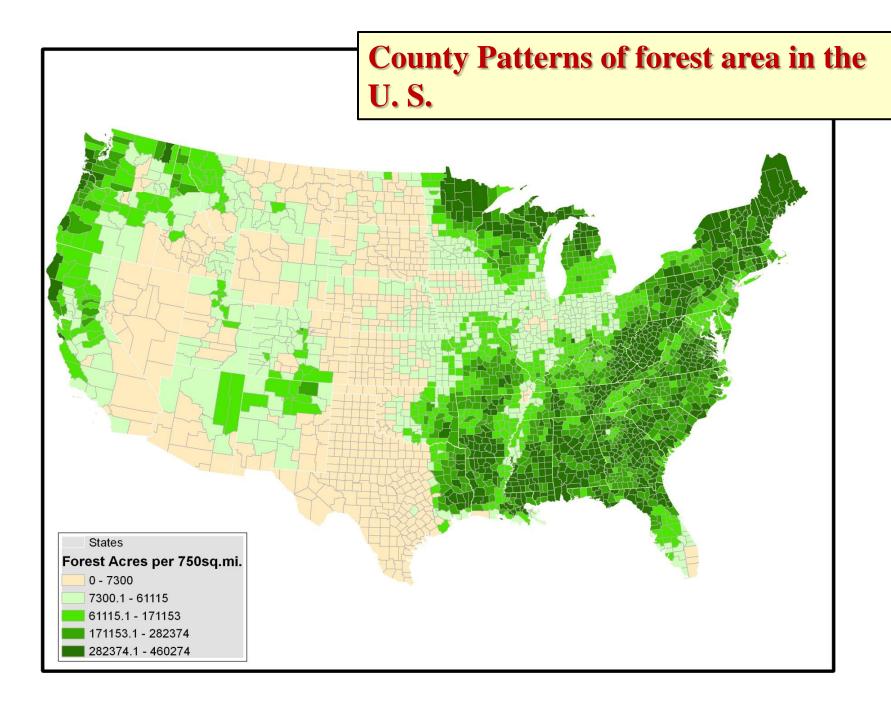
NORSIS

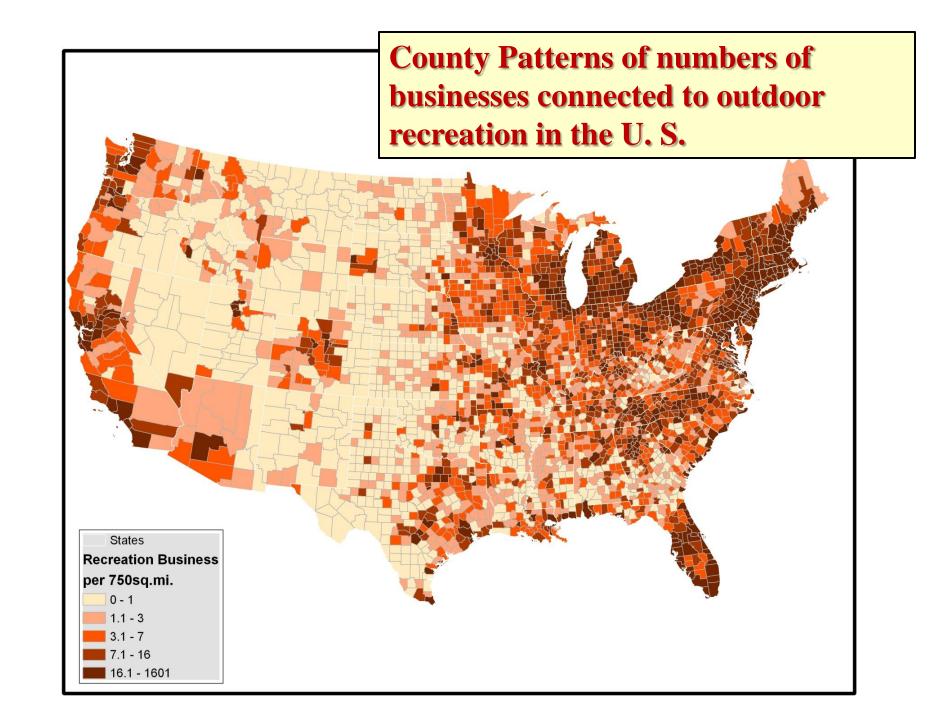
Examples of county level resources inventory

- fips
- pop2008 2008 population estimate
- waterarea Total water area (acres)
- federal Total federal government land (acres)
- forest Private forest land (acres)
- recbiz Total number of establishments for 9 recreation-related businesses
- 721211 RV (Recreational Vehicle) Parks and Campgrounds
- 721214 Recreational and Vacation Camps (except Campgrounds)
- 712120 Historical Sites
- 712130 Zoos and Botanical Gardens
- 713910 Golf Courses and Country Clubs
- 713920 Skiing Facilities
- 713930 Marinas
- 712190 Nature Parks and Other Similar Institutions
- 713110 Amusement and Theme Parks
- Per capita areas:
- waterarea, federal, and forest area acres per 1,000 people
- recbiz is number of establishments per 10,000 people



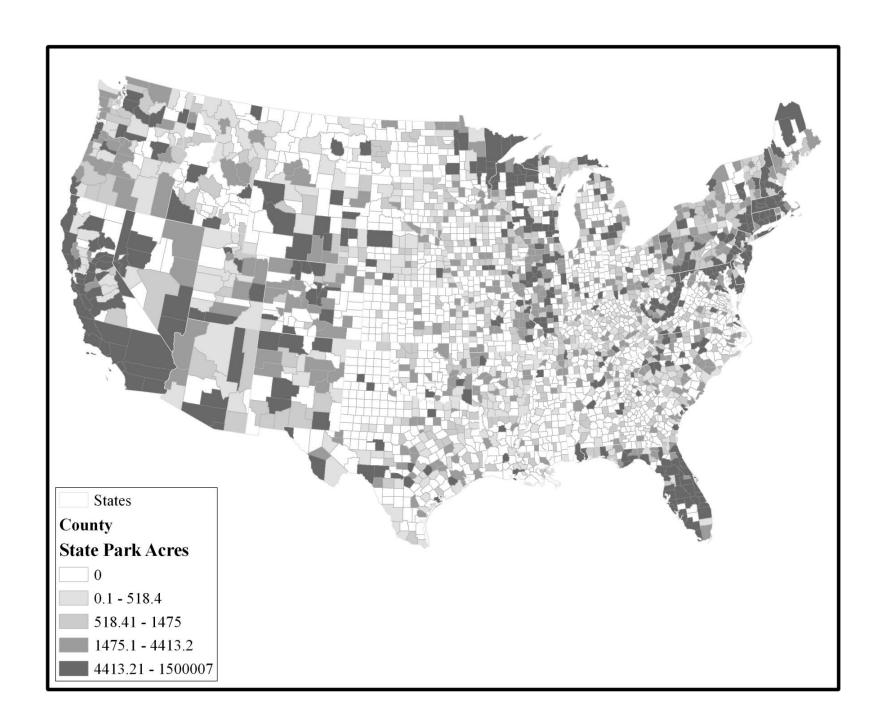




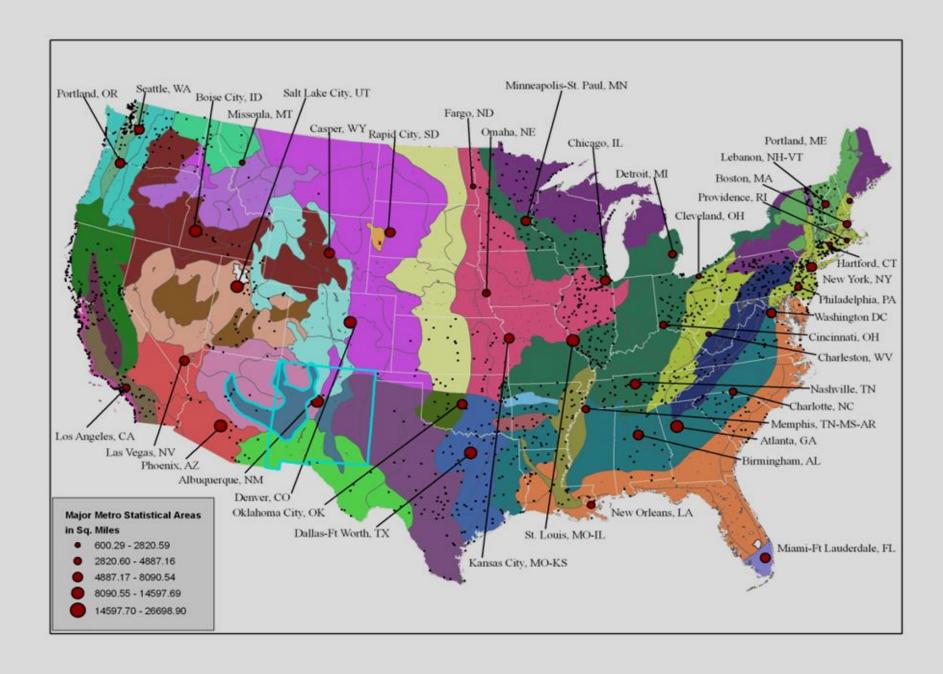


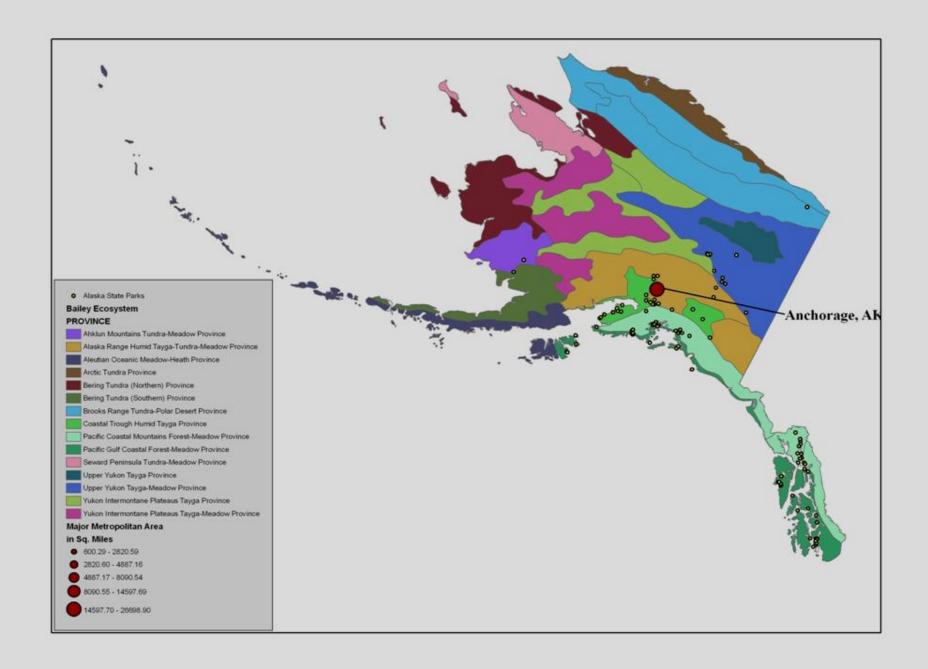
Creating park-level state park system data base for the U. S.

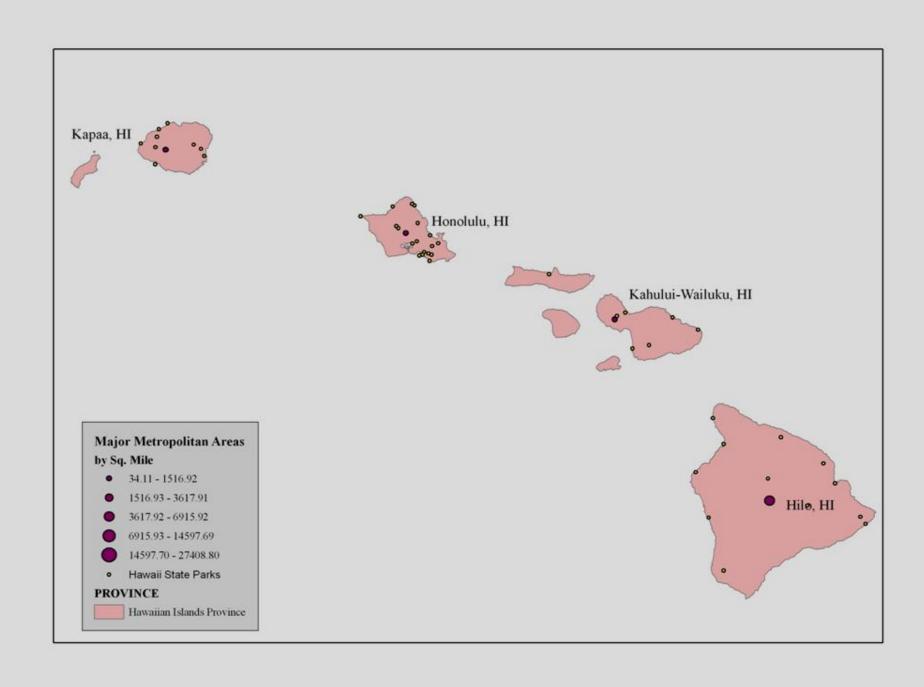
- Resurrect 1999 inventory of state parks done by hand mainly from printed sources
- Update statistics on individual parks for all states from on-line or direct contact sources
- Add size in acres
- Add lat/long park locators or, if available, shape files
- Call follow-up to each state office, or park office to validate data and check open status
- Map county total acres and individual parks

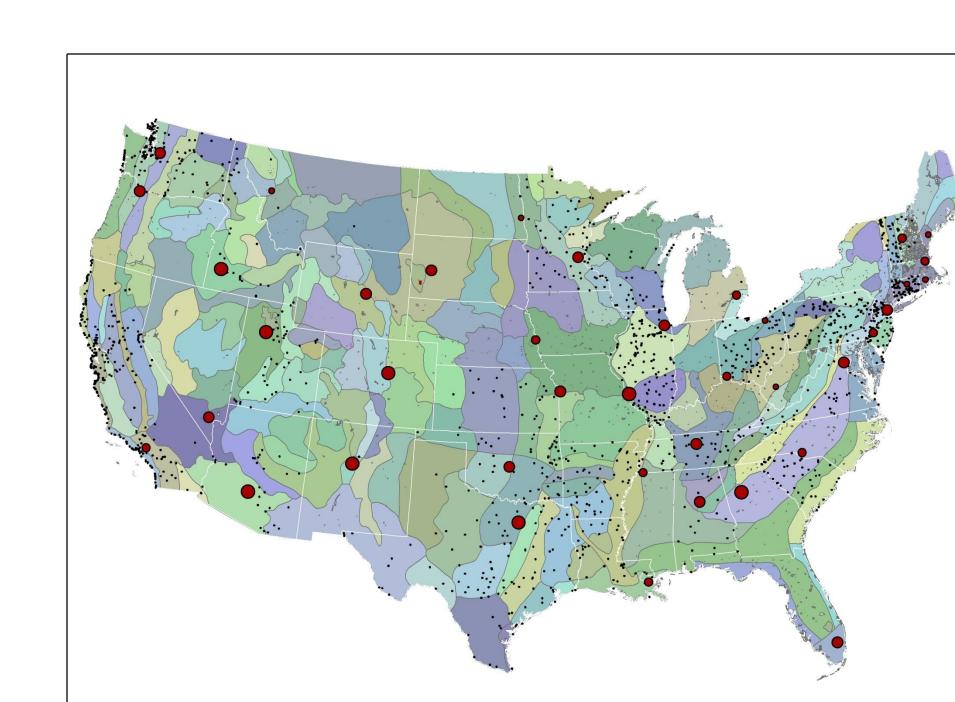


Baileys Ecosystem PROVINCE Not listed Adirondack-New England Mixed Forest-Coniferous Forest-Alpine Meadow Province American Semi-Desert and Desert Province Arizona-New Mexico Mountains Semi-Desert-Open Woodland-Coniferous Forest-Alpine Meadow Province Black Hills Coniferous Forest Province California Coastal Chapparral Forest and Shrub Province California Coastal Range Open Woodland-Shrub-Coniferous Forest-Meadow Province California Dry Steppe Province Cascade Mixed Forest-Coniferous Forest-Alpine Meadow Province Central Appalachian Broadleaf Forest-Coniferous Forest-Meadow Province Chihuahuan Semi-Desert Province Colorado Plateau Semi-Desert Province Eastern Broadleaf Forest (Continental) Province Eastern Broadleaf Forest (Oceanic) Province **Everglades Province** Great Plains Steppe Province Great Plains Steppe and Shrub Province Great Plains-Palouse Dry Steppe Province Intermountain Semi-Desert Province Intermountain Semi-Desert and Desert Province Laurentian Mixed Forest Province Lower Mississippi Riverine Forest Province Middle Rocky Mountain Steppe-Coniferous Forest-Alpine Meadow Province Nevada-Utah Mountains-Semi-Desert-Coniferous Forest-Alpine Meadow Province Northern Rocky Mountain Forest-Steppe-Coniferous Forest-Alpine Meadow Province Ouachita Mixed Forest - Meadow Province Outer Coastal Plain Mixed Forest Province Ozark Broadleaf Forest - Meadow Province Pacific Lowland Mixed Forest Province Prairie Parkland (Subtropical) Province Prairie Parkland (Temperate) Province Sierran Steppe-Mixed Forest-Coniferous Forest-Alpine Meadow Province Southeastern Mixed Forest Province Southern Rocky Mountain Steppe-Open Woodland-Coniferous Forest-Alpine Meadow Province Southwest Plateau and Plains Dry Steppe and Shrub Province







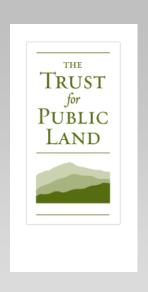


Protected Lands

- Private
- Local Government
- State Government
- Federal Wilderness System
- Other Federal Systems

Outline of Private Lands Portion of Protected Lands (TPL)

- **Introduction** to private land conservation in the United States: History and Current Situation
- Current status and trends in total private land area protected nationally and regionally (broken out by fee and easement categories)
- Map (or maps) depicting distribution and trends in acres conserved across states
- Map depicting **distribution and trend of dollars** spent by state
- Area of conserved lands by **type of ownership--**individual/family owned lands, NGO/non-profit organization lands, and conserved corporation lands
- Summary and trend of number and type of LandVote conservation finance ballot measures by state
- Detailed Version III **data for selected states** of OR, MT, MA, MO, and FL (and likely AZ CO and IL) summarizing spending at all levels of government, acres acquired, location of parcels, including GIS mapping
- National and regional profile of state land conservation programs and spending
- Current levels and trend in **federal programs and spending**
- Discussion of likely future trends at local, state and federal levels





Region		Protected Acres	% of Region
O .	Protected	per Capita	Protected
Mid-Atlantic	10,304,151.6	0.18	9.2%
Midwest	30,139,330.5	0.45	6.3%
New England	4,839,352.7	0.34	12.0%
Rocky Mountain	95,015,799.3	9.06	29.0%
Southeast	28,960,508.7	0.44	9.7%
Southwest	37,250,994.8	1.04	10.3%
West	267,143,832.8	5.21	41.5%
TOT	473,653,970.5	1.57	20.5%

Protected lands

1,000s of Acres	Nort	th	Sou	th	Rocl Mount	•	Pacific (Coast	United States		
										%	
										change,	
Federal agency										total	
reueral agency	Acres	%	Acres	%	Acres	%	Acres	%	Acres	acres	
USDA Forest Service	12,240	6.4	13,320	6.9	99,419	51.6	67,734	35.1	192,713	0.1	
National Park Service	1,349	1.7	5,195	6.6	11,080	14.1	61,201	77.6	78,825	0.1	
U.S. Fish & Wildlife	1,711	1.8	4,357	4.6	9,893	10.5	78,544	83.1	94,504	4.5	
Service											
Bureau of Reclamation	0	0.0	197	3.0	5,470	83.9	854	13.1	6,522	0.0	
Bureau of Land	4	0.0	44	0.0	142,962	56.4	110,356	43.6	253,367	-3.1	
Management											
Tennessee Valley	0	0.0	248	100.0	0	0.0	0	0.0	248	113.8	
Authority											
U.S. Army Corps of	2,557	18.6	7,104	51.7	3,540	25.8	545	4.0	13,746	18.5	
Engineers											
All federal agencies	17,862	2.8	30,466	4.8	272,364 42.6		319,234	49.9	639,926	-0.2	

National Wilderness Preservation System--2009

							Rocky Pacific									
	N	orth	South			Mountains			Coast			United States				
Federal agency Bureau of Land Management	Units 0		% 0.0		Acres 0.0	% 0.0	Units 125	Acres 4,606.1	% 52.8	Units 94		% 47.2	Units 219		U. S. total	% change, acres '03-'09 33.1
Fish & Wildlife Service	14	64.4	0.3	18	470.2	2.3	13	1,464.8	7.1	26	18,703.0	90.3	71	20,702.3	18.9	0.0
Forest Service	55	1,428.1	3.9	85	755.2	2.1	154	18,207.8	50.4	145	15,769.0	43.6	439	36,160.1	33.0	2.5
National Park Service	4	178.6	0.4	7	1,486.8	3.4	25	1,342.5	3.1	24	40,882.5	93.1	60	43,890.5	40.1	1.1
U. S. Total	73	1,671.1	1.5	110	2,712.3	2.5	317	25,621.2	23.4	289	79,474.4	72.6	789	109,478.9	100.0	3.3

2010 Assessment Products

SRS and UGA, Athens GA

- 1. Recreation activity trends and futures
- 2. Recreation and protected land resources
- 3. Natural amenities and migration
- 4. Footprints on the land

1. Recreation Activity Trends and Futures

- Population-wide participation at national and regional scales—historic and current trends:
 - Survey on Fishing, Hunting and Wildlife Associated Recreation (USFWS)
 - Outdoor Foundation—Recreation Participation Survey
 - National Survey on Recreation and the Environment and National Kids Survey (Forest Service, UGA, UT)
- Participation Differences by Age, Race, Gender, Orgin,
- Participation and Trend Differences by Region
- Public Land Visitation Trends
 - Federal Lands
 - State Parks
- Outdoor Recreation-Based Tourism and its Trends
- Projections of Demand to 2060 by IPCC Scenario

2. Recreation and protected land resources: National, regional and county patterns

Nature Based Recreation Resources

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- State Park Systems (Including NASPD survey data)
- Federal Government Systems (RECGOV)

Protected Lands

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3. Natural Amenities and Migration

- Review of published literature to now
- Measures of natural amenities
- Amenities index and mapping
- Second and vacation homes (NSRE and Census of Housing)
- Migration trends
- Motivations to Move
- Modeling and forecasting amenity migration

END